

Appl. No.: 10/803,298  
Amdt. dated 10/21/2005  
Reply to Office action of July 21, 2005

Amendments to the Specification:

Rewrite the paragraph beginning on page 14, line 7, as follows:

A circuit of the present invention for measuring distances is shown in Figure 7. The circuit comprises two inputs 1, 2, a signal source ~~not shown~~, as well as a measuring coil 3, ~~which is likewise not shown~~. The inputs 1, 2 are activated by means of two input signals  $e_{pos}$  and  $e_{neg}$  that are generated by the signal source. In accordance with the invention, the input signals  $e_{pos}$  and  $e_{neg}$  are applied to a timed SC network, and used for generating a measuring signal and/or an output signal U that is dependent on the temperature influence.

Rewrite the paragraph beginning at page 15, line 30, as follows:

A circuit that realizes this, is shown in Figure 9. The circuit comprises a signal source and a measuring coil as shown in Fig. 7, and a positive delayed SC amplifier 12, a lossy SC integrator 13, and an SC difference amplifier 14. As shown in Figure 9, the factor  $(1-\gamma_2)$  can be realized by the lossy SC integrator 13. In the case that  $\gamma_2$  is smaller than 1, an integrator capacitance on the order of  $(1-\gamma_2)C$  is used, and a capacitance on the order  $\gamma_2$  is connected parallel thereto, which is periodically discharged.

Rewrite the Abstract which appears on page 22 of the specification, as follows: